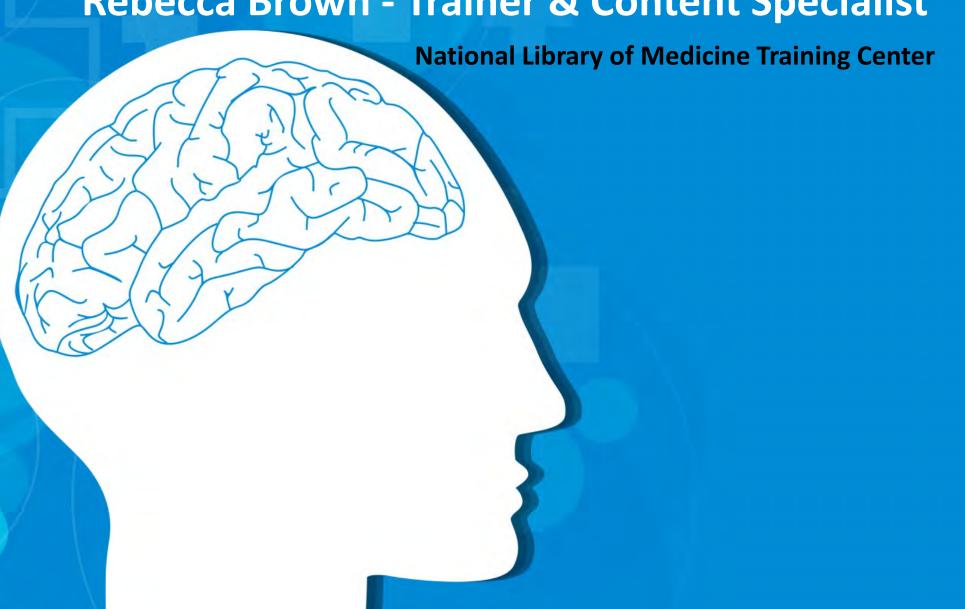
Applying Gamification Principles to Teaching and Learning

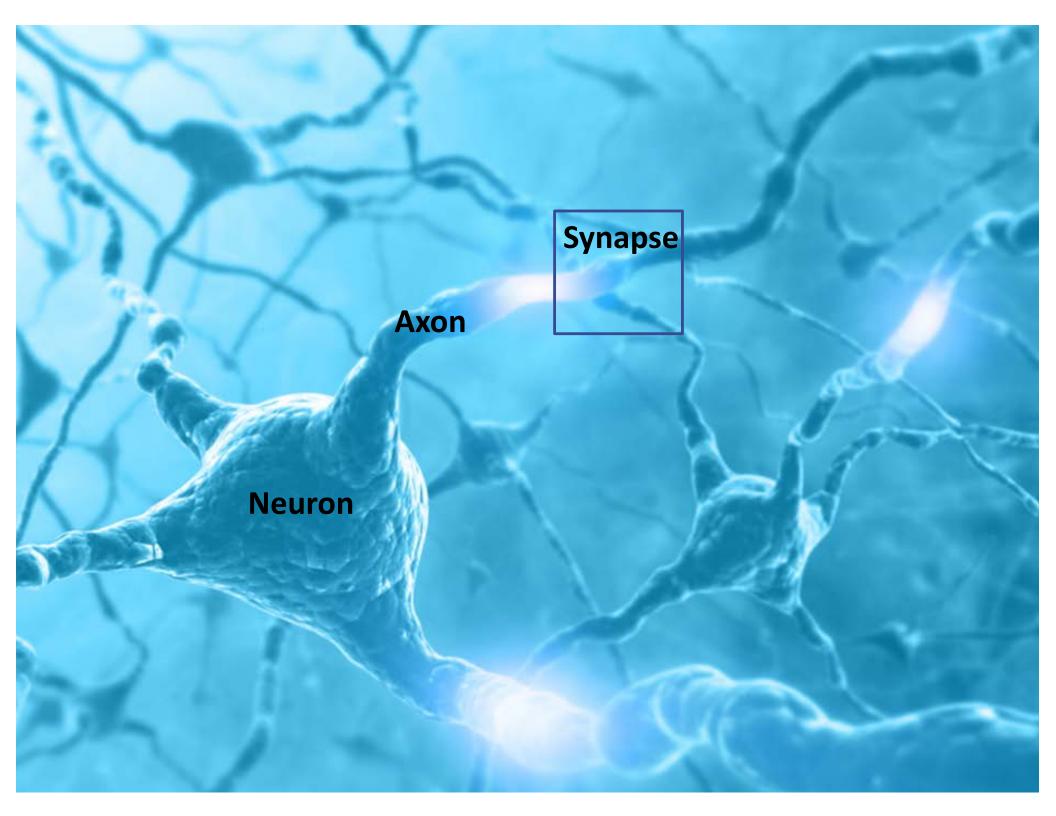
Sharon Dennis
Assistant Director
National Library of Medicine Training Center (NTC)
University of Utah

http://nnlm.gov/ntc/



Rebecca Brown - Trainer & Content Specialist

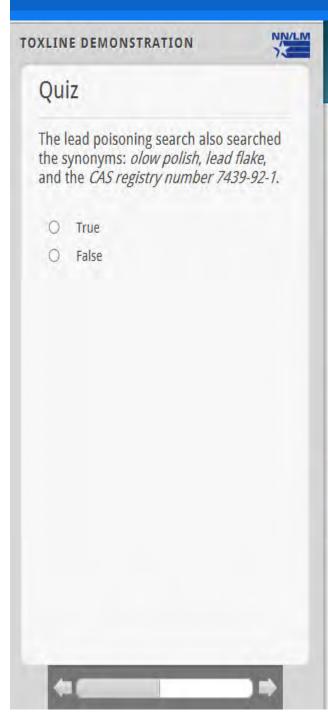




REPETITION REPETITION REPETITION

Give them something to do a.k.a. Active Learning

Guide on the Side





About TOXLINE

What is TOXLINE?

TOXLINE is a bibliographic database with an assortment of citations from specialized journals and other sources. It provides references covering the biochemical, pharmacological, physiological, and toxicological effects of drugs and other chemicals. Most of TOXLINE's bibliographic citations contain abstracts and/or indexing terms and Chemical Abstract Sarvice (CAS) Degistry Numbers

Did you know



How do I lease/license the TOXNET databases?

The following TOXNET databases are available for lease: ChemIDplus, DIRLINE, CCRIS, GENE-TOX, HSDB, and TOXLINE.

For further information visit Leasing Data from the National Library of Medicine.

Support

Resources

Help Fact Sheet Sample Recon Recent Update TOXNET FAQ Importing Citat

Contact Us

Reference Mai

Email: tehip@t Telephone: (30 Fax: (301) 480

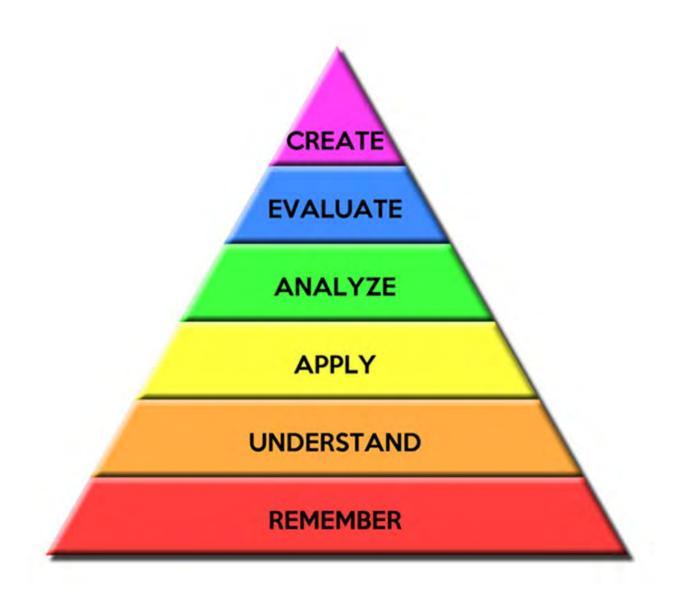
Environme Health & T

Resources on health and toxi

Critical Thinking



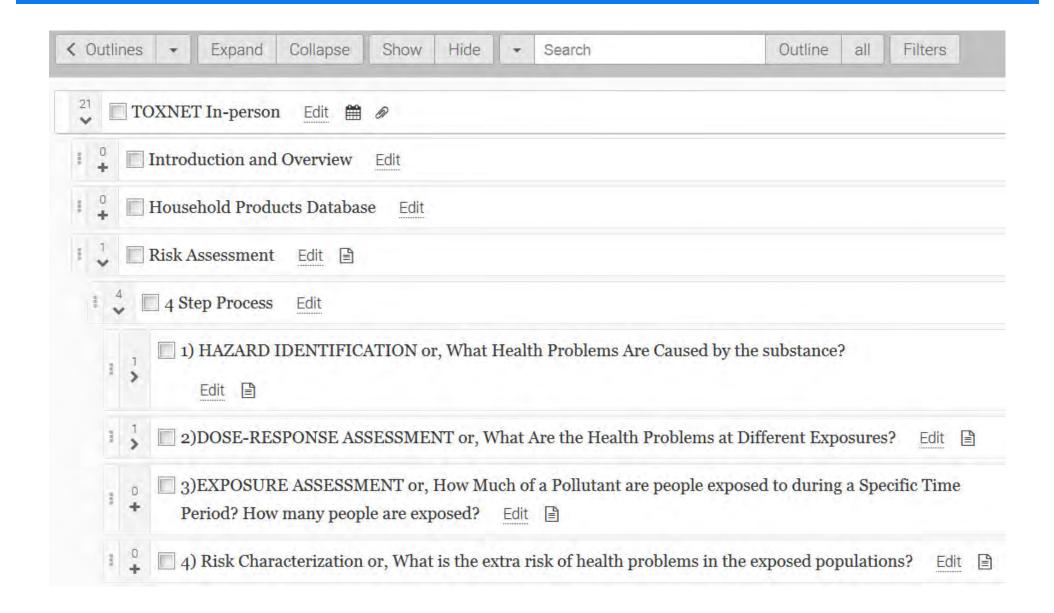
Bloom's Pyramid



Patterns/Connections



Patterns/Connections



The Outliner of Giants: www.theoutlinerofgiants.com

Social Media Alternative to Discussion Forums

Padlet

www.libraryref.com/padlet.html





Adding Meaningful Interaction to Your Classes

Jessi Van Der Volgen

Trainer/Curriculum & Content Specialist

National Library of Medicine Training Center (NTC)

University of Utah



What **IS** interaction?



What **IS** interaction?



Beware the

C_B_NEXT

Get them...

- 1. Acting
- 2.
- 3.
- 4. Reflecting

Acting

Relevant practice
What's the next step?
What did I do wrong? Right?

Feeling



Teaching a class is most like ...







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Connecting

Share experiences and ideas
Work through problems
Defend an opinion
Surveys/Polls
Think-pair-share
Teach back

Reflecting

Thinking about our session today, what are you going to start, stop or continue doing as a result?

Connect with the NTC

- Follow our blog: http://nnlm.gov/ntc/
- Twitter @nnlmntc
- Facebook: https://www.facebook.com/nnlmntc





What is Gamification?

• POLL

Definition of Gamification

 The use of game elements and game design techniques in non-game contexts to digitally engage and motivate people to achieve their goals

OR

 "Making non-game activities more fun and emotionally engaging"

What Motivates You?



Key Principles of Gamification

- Goals
- Rules
- Competition / social
- Reward structures
- Constant feedback
- Levels, replay or do over

Traditional Courses

• *POLL:* How are traditional courses different from the gamification key principles?

Gamification Reward Structure

- Points
- Leaderboard
- Badges

Points

 Award points for successful completion of learning activities

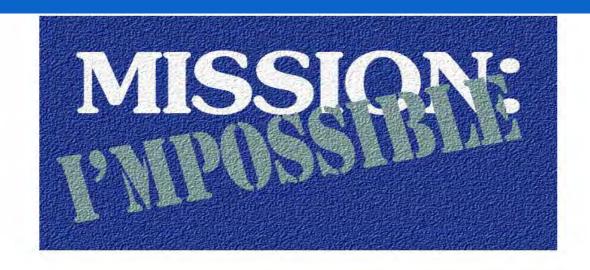
Leaderboard

- My home
- Site pages
- My profile
- This game
 - Mission
 I'mPossible
 - ► Participants
 - Badges
 - ▶ General
 - ▶ Game Details
 - Mission: Advocacy
 - Mission: Technology
 - Mission: Education
 - Mission: Health Information Literacy
 - Mission Wildcard
 - ▶ Agent Forum
 - About This Game
- ► My courses

Administration 🗏 🗉
▼ Game
administration
Turn editing on
Edit settings
Course Course
completion
▶ Users
Unenrol me from
Mission
l'mPossible
Filters
Reports

Scores

Outcomes



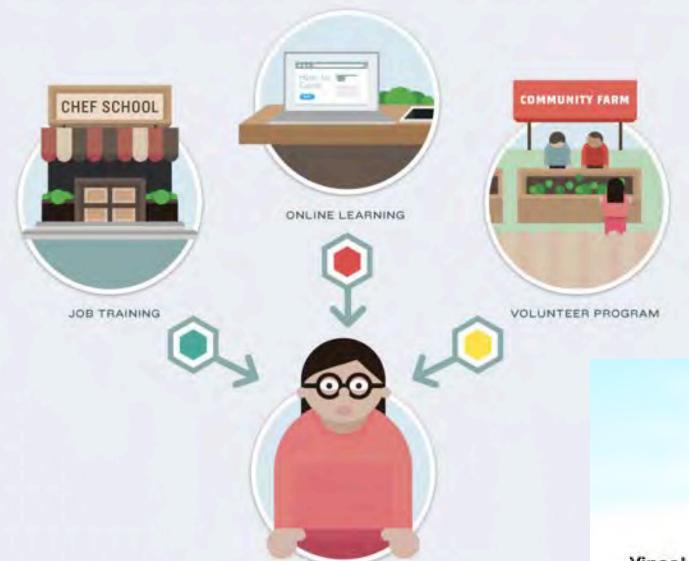
Rank	Name	Wildcard	Advocacy	Education	Technology	Literacy	Total Score
1		25	50	170	40	135	420
2		5	0	90	60	40	195
3		15	25	50	0	0	90
4		5	0	20	30	10	65
5		o	50	0	0	0	50
6		o	0	40	0	0	40
7		o	10	10	0	10	30
8		0	10	0	0	10	20

Badges

OpenBadges

Open Badges help you share your skills & interests with the world:

www.openbadges.org/



LEARNER



Yipee! You've earned the 747 badge!

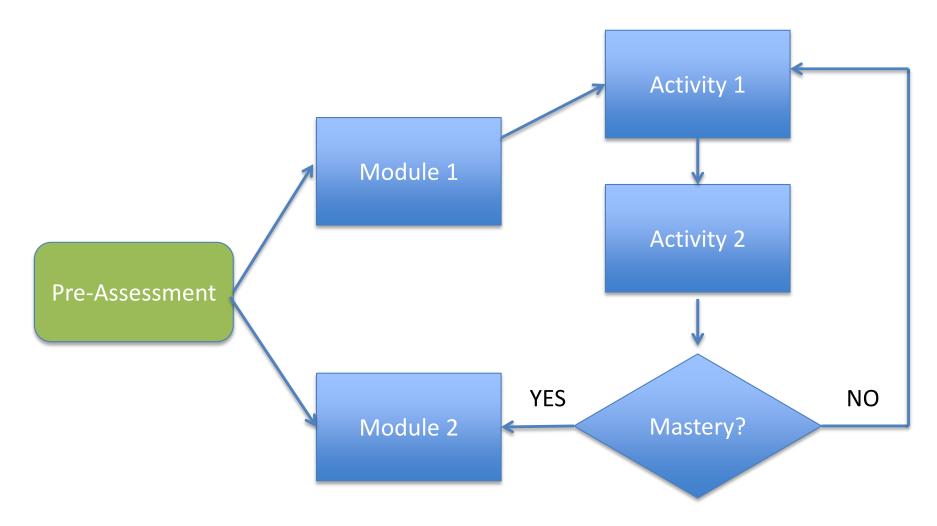
You're flying high at 4,000 floors, and halfway to your next badge!

The Gamified Course

- Varied learning methods
- Personal choice
- Student-paced rather than class-paced
- Social interaction and competition
- Cumulative grading based on points
- Constant feedback
- Students can "re-do" until they reach mastery

What Would the Course Look Like?

- Course structure
- Motivators



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Thoughts?

Credits:

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- Burke, B. "Why Gamification's NOT a Game."
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